CHENBRO

5-Port 6Gb/s SATA/SAS Backplane

80H10533504A0

User's Manual

April 2013

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Chenbro works hard to offer our customers maximum performance from our chassis. But in case you have any problem with our product you can find supports from the following resources.

Web Support

Detail information of our products is in our website. You can find technical updates, installation guides, FAQs, technical specifications and more. Our web address is: www.chenbro.com.

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You can also contact Chenbro HQ or branch office for immediate support; contact Information is as following:

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Contents

Copyright.....2
Technical Support.....2
Contents.....3
Safety Instruction.....4
Revision History.....4
6Gb/s Backplane Specification.....5
Backplane Layout..... 6~9
Backplane wiring.....10

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Safety Instruction

Caution:

Inform the user of conditions that might result in damage to hardware, corruption of customer data or application software, or long-term health hazard to people. A caution always precedes the information to which it relates.

WARNINGS:

Alert the user to conditions that might result in injury or death. A warning always precedes the information to which it pertains.

Revision History

Date	Modification
April / 2 / 2013	• First Release

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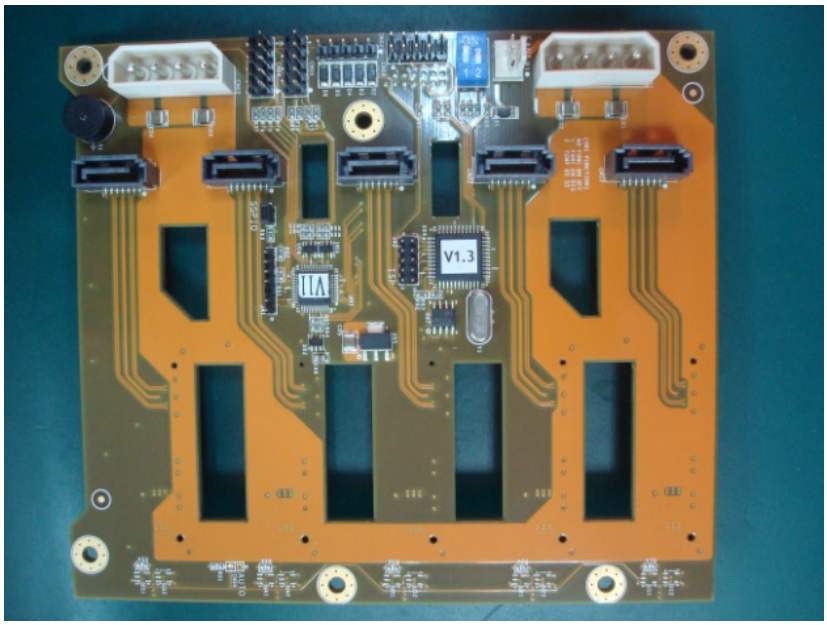
6Gb/s Backplane Specification



P/N: 80H10533504A0

HDD BACKPLANE TOP VIEW

Specification	
Host Interface	**SATA**
HDD Interface	**SAS**
Hot-Swap	**Yes, allows user to replace Hard Disk drive on line**
Display	**LED indicates Hard Disk Drive status** **Power LED-Blue (When HDD is present)** **Access LED-Green (When HDD is busy)** **Error LED- Red (When HDD is error)**
Cooling	**One Fan Connector**
Environment Monitor	**Temperature senor detect (RT1, RT2)**
Connectors	**1. SATA 7P*5** **2. SAS 29P*5** **3. Standard 4P Power Connector*2 for +5V,+12V from power supply** **4. Pin Header 2.54mm (2x5)*3, (1x5)*1** **5. Pin Header 2.0mm (2x7)*1, (1x2)*1**
Dimension	**122.3(L)x 141(W)x 2.4(H) mm**
Material	**FR4 4 layer**

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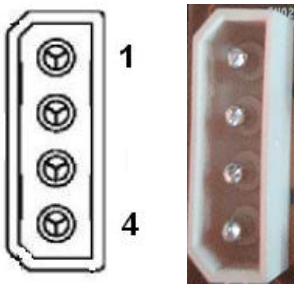
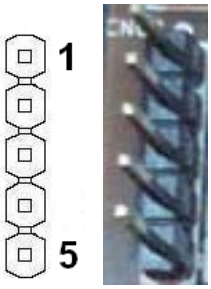
POWER Connector (CN01~CN02)

Pin NO.	Description
1	12V
2	GND
3	GND
4	5Vt



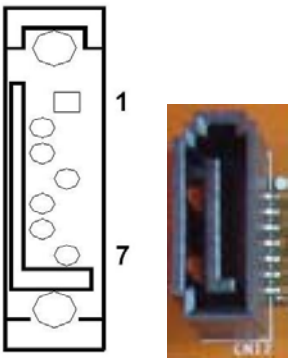
HDD FAIL LED Connector (CN03)

Pin NO.	Description
1	HDD FAIL LED (CN11)
2	HDD FAIL LED (CN21)
3	HDD FAIL LED (CN31)
4	HDD FAIL LED (CN41)
5	HDD FAIL LED (CN51)



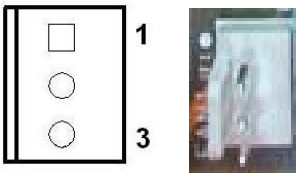
HOST IN Connector (CN12, CN22, CN32, CN42, CN52)

Pin NO.	Description
1	GND
2	RP
3	RN
4	GND
5	TN
6	TP
7	GND



Fan Connector (JF1)

Pin NO.	Description
1	GND
2	12V
3	FAN



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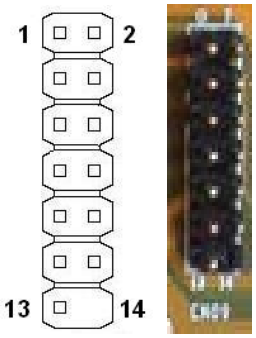
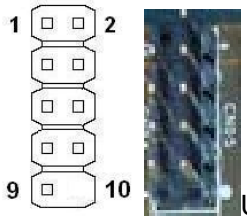
SYSTEM Connector (CN09)

Pin NO.	Descriptions	Pin NO.	Descriptions
1	USB1POWER	2	TEMP FAIL LED
3	USB1 DATA-	4	FAN FAIL LED
5	USB1 DATA+	6	HDD FAIL LED
7	USB2POWER	8	5V
9	USB2 DATA-	10	GND
11	USB2 DATA+	12	GND
13	MUTE SW	14	KEY PIN



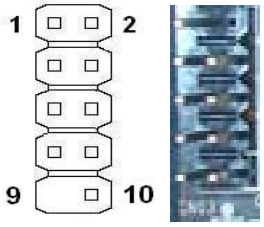
SGPIO SIGNAL Connector (CN05~CN06)

Pin NO.	Descriptions	Pin NO.	Descriptions
1	SGPIO DATA INPPUT	2	NC
3	SGPIO DATA OUTPUT	4	GND
5	GND	6	SGPIO LOAD
7	CONTROL TYPE	8	SGPIO CLOCK
9	NC	10	KEY PIN



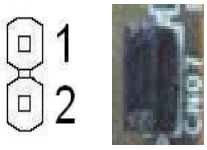
USB Connector (CN08)

Pin NO.	Descriptions	Pin NO.	Descriptions
1	USB1POWER	2	USB2POWER
3	USB1 DATA-	4	USB2 DATA-
5	USB1 DATA+	6	USB2 DATA+
7	USB1 GND	8	USB 2 GND
9	KEY PIN	10	NC



SGPIO FAIL FUNCTION (CN07)

JUMP SETTING	Descriptions
CLOSE	SGPIO FAIL ENABLE (Default)
OPEN	SGPIO FAIL DISABLE



HDD IN Connector (CH11, CH21, CH31, CH41, CH51)

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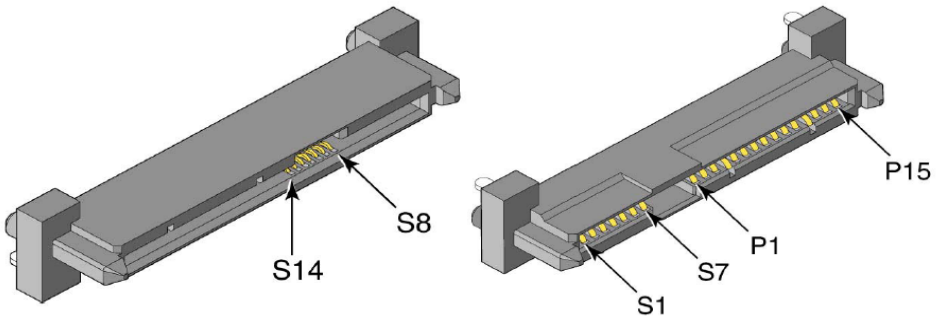
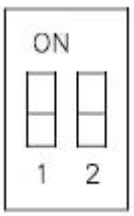


Pin NO.	Descriptions	Pin NO.	Descriptions
S1	GND	P1	NC
S2	RP	P2	NC
S3	RN	P3	NC
S4	GND	P4	GND
S5	TN	P5	POWER ENABLE
S6	TP	P6	GND
S7	GND	P7	5V PRE- CHARGE
S8	NC	P8	5V
S9	NC	P9	5V
S10	NC	P10	GND
S11	NC	P11	ACCESS SIGNAL
S12	NC	P12	GND
S13	NC	P13	12V PRE- CHARGE
S14	NC	P14	12V
		P15	12V

SW1 FUNCTION



SW1-1: FAN Enable/Disable Setting

SW1-1	FAN
ON	Enable (Default)
OFF	Disable

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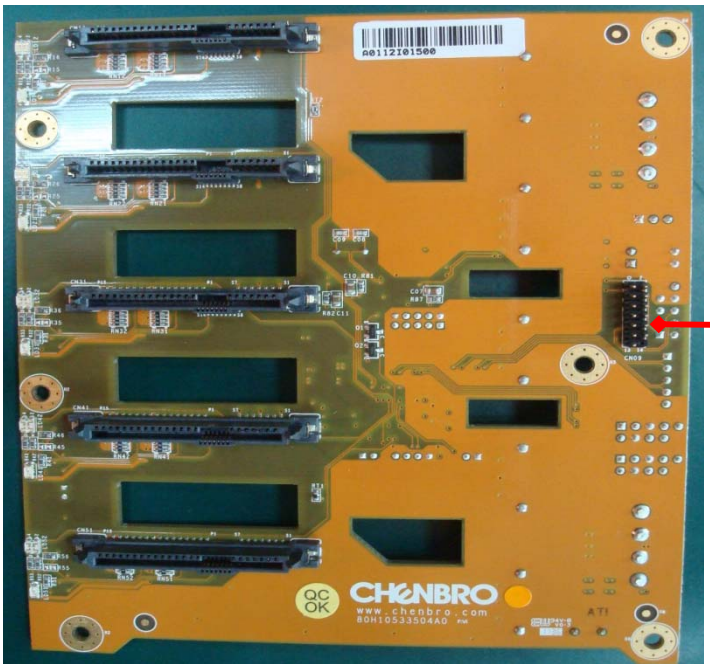
SW1-2: TEMP Setting

SW1-2	FAN
ON	65°C
OFF	55°C(Default)

HDD BACKPLANE TOP VIEW



Link to chassis
front LED board

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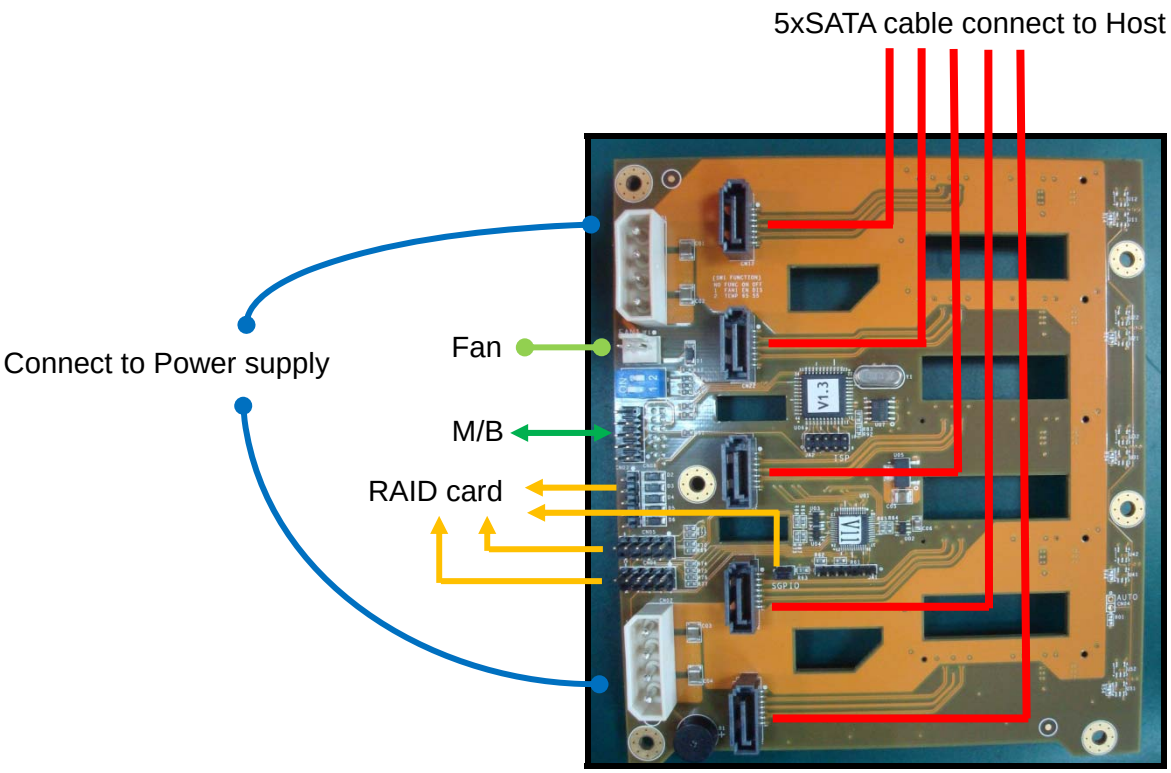
Backplane Wiring



SATA cable (BP to Host, 5x cables per BP)
M/B
Cooling fan (support 3pin fan)
HDD power source

This Backplane is applied to Chenbro SK33502.

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